

PURAFIL ENVIRONMENTAL CORROSION REPORT

06-Jan-2011

Company: 120321

Sales Order #: C002726

CCC Panel #: P68805

Date In: 30-Nov-2010

Date Out: 14-Dec-2010

Days In Service: 14

Room/Area ID:

Reference #:



DO NOT TOUCH METAL COUPON

Corrosion Classification Coupon

Company 120321	
Address	
Room/Area I.D.	
Date In 11/30/10	Time In: 1:45 a.m. / p.m.
Date Out 12/14/10	Time Out: 11:00 a.m. / p.m.
Coupon P68805	Tracking # 02726
Serial #	

Industrial
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 CIF

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CCC Panel # P68805

ISA Class G1 Mild

Copper Corrosion 242 Å/30 Days
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Silver Corrosion 421 Å/30 Days
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(see next page for complete analysis)

Summary for PURAFIL CCC # P68805

The electrolytic reduction analysis on Corrosion Classification Coupon #P68805 shows the presence of only very low concentrations of contaminants in the environment tested. The hydrogen sulfide level is not expected to exceed 3 ppb and the sulfur dioxide level should be less than 10 ppb. During the test period, corrosion, as shown by the copper coupon, is not a factor in determining equipment reliability.

Please note: Copper's reactivity is sensitive to temperature and relative humidity and can therefore exhibit seasonal variation. For example, below 30% relative humidity (typical for heated indoor air in winter), copper readings will be dramatically reduced. However, silver's reactivity is not affected by temperature and relative humidity. Due to the elevated level of film growth on the silver coupon, corrosion may be a factor in determining equipment reliability; continued monitoring is recommended.

Your local representative for additional information and assistance is:
 Environmental Health and Eng
 117 Fourth Avenue, Needham MA 02494, USA
 tminegishi@eheinc.com

Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922
 Email: purafil@purafil.com / Internet: http://www.purafil.com

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PURAFIL CCC # P68805 Analysis Results

Corrosion Film Composition				Gold Coupon - Magnified 20x
	Projections			
	<u>30 Days</u>	<u>1 Year</u>	<u>5 Year</u>	
Copper Films				
Cu ₂ S	0 Å	0 Å	0 Å	
Cu ₂ O	228 Å	304 Å	397 Å	
Unknowns	14 Å	19 Å	24 Å	
Totals	242 Å	323 Å	421 Å	
Silver Films				
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	421 Å	5124 Å	25622 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	421 Å	5124 Å	25622 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

Equipment Reliability Correlation
(ISA Standard S71.04-1985 for Copper)

